

Robin Luo

Phone +86 199 4564 6393
Email robin.rb.luo@gmail.com
Portfolio <https://robinpx.github.io>
GitHub robinpx
Nationality USA

About

Frontend Developer, Software Engineer, Artist. Curious, creative, self-driven. She is passionate about the intersection of art, computation, and critical theory, and cares about engineering for net social good and to nurture community building in the digital and in real life. She is currently seeking a position in the tech industry to return to the U.S.

Education

New York University Shanghai
Relevant Coursework

Computer Science B.S. **August 2018 - May 2022**
Operating Systems, Software Engineering, Basic Algorithms, Database Design and Implementation, Data Structures, Communications Lab, The Ethics of Big Tech & Social Media: Technoethics

Relevant Experience

Frontend Developer Intern - MetaApp

Shanghai, China

May 2022 - present

- Learning **Next.js** and **TailwindCSS** and contributing to adjustments to P12 Games website requested by Design Team
- Active bilingual communication with mentor and participating in daily engineering meetings to update on progress
- Implemented Google Analytics to official landing page: <https://p12.network/>

Intern - Chronus Art Center

Shanghai, China

June 2021 - Dec. 2021

- Consulted and collaborated about programming and software with the Head of Research and Creation
- Built tools with **ROS**, **C++**, and **Python**, and a webdriver with **Selenium WebDriver in Python** and **OOP** for ALTAR-3000 project
- Ideated roomba initialization process in **Arduino using GPS tracking** and developed a Settings GUI in **Flask** for Unfamiliar Convenient project
- Devised a defunkt summer camp program topic about digital identity and prepared a workshop with Spark AR

Relevant Projects

ALTAR-3000 - Prophetic Robot Arm - Media Art

June 2021 - Dec. 2021

<https://github.com/robinpx/chronus>

- Aided in extensive debugging of the Yahboom robot arm, ROS, and compatibility with the Chronus Art Center lab's **Linux Ubuntu**
- Designed tools in a memory saving way alongside ML algorithms, openFrameworks, and 4GB Jetson Nano
- Created a webdriver class with **Selenium WebDriver**, **OOP**, and **Python** for captcha image extraction and prophecy posting to 8kun
- Devised and developed a **OOP robotics** tool to model and extract servo degrees with the given Yahboom 6DOF robot arm resources, **ROS**, given inverse and forward kinematics functionalities, and **C++**
- Implemented **Python** functions to execute arm performances with Yahboom's library Arm_lib and extracted degrees

Pigeon Sale - E-Commerce Secondhand Trading System Group Project - Full Stack

Oct. 2021 - Dec. 2021

<https://github.com/Harrilee/PigeonSale>

- Collaborated in team of 3 to build secondhand trading app with chat system, separating and arranging tasks into 3 areas: **API testing with Postman and mySQL database design, Flask REST API backend with Redis server, React frontend**
- Organized iterative goals within a 2 month span through pre-planning with case diagrams, user-stories, and group meetings practicing **agile and XP methodologies**
- Responsible for extensive designing, developing, and testing responsive frontend components with **React, MUI, SCSS**, and **react-router-dom**
- Connected frontend to backend by creating a **JavaScript library with Fetch API**
- Communicated issues through **GitHub** and pair-programming

AuxNow - Spotify Playlist Maker - Full Stack

Oct. 2020

<https://github.com/robinpx/auxnow>

- Responsive Spotify customizable playlist maker to teach myself the basics of **React, Node.js**, and **deployment**
- Extensively designed, developed, and tested frontend components to understand React workflow
- Implemented backend to Spotify API example with **OAuth2 authentication code flow** and Node.js with **axios** library to replace deprecated request package

Skills

Creative

p5.js, Processing, Photography, Painting, Web Design, Adobe Illustrator, Adobe Premiere Pro, GarageBand, Logic Pro X

Technical

Python, JavaScript, React, MUI, Git, C, Java, Arduino, C++, HTML, CSS, SCSS, jQuery, mySQL, MongoDB, Shell

Language

English (Fluent) Mandarin (Beginner-Intermediate)

Achievements

Altar-3000 - An AI prophet in the age of digestible truths - Press

CreativeApplications.net

Jan. 2022

Send-off, 2020 - Film

Movement/Memory/Mapping Exhibition

Power Station of Art

March 2021

The Rest, 2020 - Film

Student Film Festival

Duke Kunshan

Sept. 2021

Awake, 2017 - Poetry

Metrolines Poetry Winner

Poetry in Motion

July 2017